

## PALM INTRANET

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## **Inventor Information for 10/643016**

| Inventor Name                        | City                                 | State/Country       |
|--------------------------------------|--------------------------------------|---------------------|
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| HATLESTAD, JOHN D.                   | MAPLEWOOD                            | MINNESOTA           |
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| HARTLEY, JESSE                       | LINO LAKES                           | MINNESOTA           |
| DAUM, DOUGLAS R.                     | OAKDALE                              | MINNESOTA           |
| LEE, KENT                            | FRIDLEY                              | MINNESOTA           |
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| US<br>20060129197<br>A1 | US-<br>PGPUB | 20060615 | Atrial capture verification  | 607/28  |                                  | Zhang; Geng et al.                |
|-------------------------|--------------|----------|--|---------|----------------------------------|-----------------------------------|
| US<br>20060116728<br>A1 | US-<br>PGPUB | 20060601 | REDUCTION OF INTERACTION WITH TACHYARRHYTHMIA DETECTION BY NEGATIVE OFFSET PACING                                  | 607/9   |                                  | Stahmann;<br>Jeffrey E. et<br>al. |
| US<br>20060116593<br>A1 | US-<br>PGPUB | 20060601 | Cardiac activation sequence monitoring for ischemia detection  | 600/512 |                                  | Zhang; Yi et al.                  |
| US<br>20060069322<br>A1 | US-<br>PGPUB | 20060330 | Cardiac activation sequence monitoring and tracking  | 600/512 |                                  | Zhang; Yi et al.                  |
| US<br>20060052830<br>A1 | US-<br>PGPUB | 20060309 | Cardiac rhythm management system with arrhythmia classification and electrode selection                            | 607/4   |                                  | Spinelli;<br>Julio C. et al.      |
| US<br>20060041280<br>A1 | US-<br>PGPUB | 20060223 | Thoracic impedance detection with blood resistivity compensation   | 607/17  | 600/484;<br>600/547              | Stahmann;<br>Jeffrey E. et<br>al. |
| US<br>20060036288<br>A1 | US-<br>PGPUB | 20060216 | Pacer with combined defibrillator tailored for bradycardia patients  | 607/5   |                                  | Bocek;<br>Joseph M. et<br>al.     |
| US<br>20060025827<br>A1 | US-<br>PGPUB | 20060202 | Apparatus and method for detecting lung sounds using an implanted device   | 607/17  | 600/526;<br>600/586              | Hatlesad;<br>John D. et al.       |
| US<br>20060009812<br>A1 | US-<br>PGPUB | 20060112 | Maximum pacing rate limiter implemented using the evoked response - T-wave interval                                | 607/27  | 607/17                           | Daum;<br>Douglas R.<br>et al.     |
| US<br>20060004418<br>A1 | US-<br>PGPUB | 20060105 | System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing | 607/9   |                                  | Stahmann;<br>Jeffrey E. et<br>al. |
| US<br>20050288729<br>A1 | US-<br>PGPUB | 20051229 | Coordinated therapy for disordered breathing including baroreflex modulation                                       | 607/42  |                                  | Libbus, Imad et al.               |
| US<br>20050288728<br>A1 | US-<br>PGPUB | 20051229 | Adaptive baroreflex stimulation therapy for disordered breathing   | 607/42  |                                  | Libbus, Imad et al.               |
| US<br>20050288719       | US-<br>PGPUB | 20051229 | Far-field sensing channel for implantable cardiac device   | 607/9   |                                  | Zhang, Geng et al.                |
| US<br>20050288600<br>A1 | US-<br>PGPUB | 20051229 | Automatic orientation determination for ECG measurements using multiple electrodes                                 | 600/510 | . 600/512;<br>600/515;<br>607/17 | Zhang, Yi et al.                  |
| US<br>20050283197<br>A1 | US-<br>PGPUB | 20051222 | Systems and methods for hypotension  | 607/17  | 607/3;<br>607/9                  | Daum,<br>Douglas R.<br>et al.     |
| US<br>20050256547<br>A1 | US-<br>PGPUB | 20051117 | Site reversion in cardiac rhythm management  | 607/27  |                                  | Stahmann,<br>Jeffrey E. et<br>al. |

| US<br>20050251215<br>A1 | US-<br>PGPUB | 20051110 | Cardiac rhythm management system with defibrillation threshold prediction   | 607/8      | 607/28;<br>607/7                  | Dujmovic,<br>Richard<br>Milon JR. et<br>al. |
|-------------------------|--------------|----------|---|------------|-----------------------------------|---|
| US<br>20050240236<br>A1 | US-<br>PGPUB | 20051027 | Implantable medical device with voice responding and recording capacity   | 607/27     |                                   | Daum, Douglas R. et al.                     |
| US<br>20050216068<br>A1 | US-<br>PGPUB | 20050929 | Ectopic beat detection algorithm for implantable cardiac rhythm management device   | 607/25     | 600/510                           | Lee, Kent et al.                            |
| US<br>20050203581<br>A1 | US-<br>PGPUB | 20050915 | Cardiac rhythm management system with arrhythmia classification and electrode selection                                   | 607/9      |                                   | Spinelli,<br>Julio C. et al.                |
| US<br>20050197674<br>A1 | US-<br>PGPUB | 20050908 | Wireless ECG in implantable devices   | 607/9      |                                   | McCabe,<br>Aaron et al.                     |
| US<br>20050187594<br>A1 | US-<br>PGPUB | 20050825 | System and method for transmitting energy to and establishing a communications network with one or more implanted devices | 607/61     | 607/33                            | Hatlestad,<br>John D.                       |
| US<br>20050187588<br>A1 | US-<br>PGPUB | 20050825 | System and method for displaying cardiac events   | 607/27     | 600/510                           | Stahmann,<br>Jeffrey E. et<br>al.           |
| US<br>20050165453<br>A1 | US-<br>PGPUB | 20050728 | Method and apparatus for maintaining synchronized pacing  | 607/9      |                                   | Stahmann,<br>Jeffrey E. et<br>al.           |
| US<br>20050145246<br>A1 | US-<br>PGPUB | 20050707 | Posture detection system and method   | 128/203.14 | 607/17;<br>607/3                  | Hartley,<br>Jesse W. et<br>al.              |
| US<br>20050142070<br>A1 | US-<br>PGPUB | 20050630 | Methods and systems for assessing pulmonary disease with drug therapy control   | 424/45     | 604/890.1                         | Hartley,<br>Jesse W. et<br>al.              |
| US<br>20050137629<br>A1 | US-<br>PGPUB | 20050623 | Trended measurement of cardiac resynchronization therapy  | 607/9      | 600/510                           | Dyjach, John A. et al.                      |
| US<br>20050137626<br>A1 | US-<br>PGPUB | 20050623 | Drug delivery system and method employing external drug delivery device in conjunction with computer network              | 607/3      | 604/891.1                         | Pastore,<br>Joseph M. et<br>al.             |
| US<br>20050115561<br>A1 | US-<br>PGPUB | 20050602 | Patient monitoring, diagnosis, and/or therapy systems and methods   | 128/200.24 | 128/204.1<br>8;<br>128/204.2<br>3 | Stahmann,<br>Jeffrey E. et<br>al.           |
| US<br>20050113710<br>A1 | US-<br>PGPUB | 20050526 | movement sensing for detecting sleep-related disorders  | 600/534    | 600/536;<br>600/546;<br>600/595   | Stahmann,<br>Jeffrey E. et<br>al.           |
| US<br>20050109339<br>A1 | US-<br>PGPUB | 20050526 |   | 128/204.18 | 128/204.2                         | Stahmann,<br>Jeffrey E. et<br>al.           |
| US                      | US-          | 20050526 | Cardiac pacing controlled via   | 128/204.18 | 128/204.2                         | Stahmann,                                   |

| 20050109338             | PGPUB        |          | respiration therapy device   |            | 3  | Jeffrey E. et al.                 |
|-------------------------|--------------|----------|--|------------|--|-----------------------------------|
| US<br>20050107838<br>A1 | US-<br>PGPUB | 20050519 | Subcutaneous cardiac rhythm<br>management with disordered<br>breathing detection and treatment                     | 607/17     | 607/42   | Lovett, Eric<br>G. et al.         |
| US<br>20050085738<br>A1 | US-<br>PGPUB | 20050421 | Sleep logbook  | 600/529    | 600/484;<br>600/595  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050081847<br>A1 | US-<br>PGPUB | 20050421 | Automatic activation of medical processes  | 128/200.24 | 128/204.2<br>3; 607/9  | Lee, Kent et al.                  |
| US<br>20050080463<br>A1 | US-<br>PGPUB | 20050414 | System and method for detecting an involuntary muscle movement disorder  | 607/62     | 600/546;<br>600/595;<br>604/66   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050080461<br>A1 | US-<br>PGPUB | 20050414 | System and method for moderating a therapy delivered during sleep using physiologic data acquired during non-sleep | 607/17     |  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050080348<br>A1 | US-<br>PGPUB | 20050414 | Medical event logbook system and method  | 600/529    | 600/484  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050076909<br>A1 | US-<br>PGPUB | 20050414 | Synergistic use of medical devices for detecting medical disorders   | 128/204.23 | 128/920;<br>600/300;<br>607/6;<br>607/62                                       | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050076908<br>A1 | US-<br>PGPUB | 20050414 | Autonomic arousal detection system and method  | 128/204.23 | 600/509;<br>600/519;<br>600/529;<br>600/544;<br>600/546;<br>600/547;<br>607/6; | Lee, Kent et al.                  |
| US<br>20050076905<br>A1 | US-<br>PGPUB | 20050414 | Use of external respiratory therapy device to detect cardiac electrical activity                                   | 128/203.14 |  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050074741<br>A1 | US-<br>PGPUB | 20050407 | System and method for discrimination of central and obstructive disordered breathing events                        | 434/433    |  | Lee, Kent et al.                  |
| US<br>20050065572<br>A1 | US-<br>PGPUB | 20050324 | Diagnosis and/or therapy using blood chemistry/expired gas parameter analysis                                      | 607/42     | 607/17;  | Hartley, Jesse W. et al.          |
| US<br>20050065567<br>A1 | US-<br>PGPUB | 20050324 | Therapy control based on cardiopulmonary status  | 607/17     | 128/204.2  | Lee, Kent et al.                  |
| US<br>20050065566<br>A1 | US-<br>PGPUB | 20050324 | Rate regularization of cardiac pacing for disordered breathing therapy   | 607/17     |  | Hartley, Jesse W. et al.          |
| US                      | US-          | 20050324 | System and method for cardiac  | 607/9      | 1  | Kramer,                           |

| 20050065565<br>A1       | PGPUB        |          | rhythm management with synchronized pacing protection period                        |            |                                   | Andrew P. et al.                  |
|-------------------------|--------------|----------|---|------------|-----------------------------------|-----------------------------------|
| US<br>20050065560<br>A1 | US-<br>PGPUB | 20050324 | Snoring detection system and method   | 607/6      |                                   | Lee, Kent et al.                  |
| US<br>20050065448<br>A1 | US-<br>PGPUB | 20050324 | Methods and systems for assessing pulmonary disease                                 | 600/529    | 128/204.2                         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050065447<br>A1 | US-<br>PGPUB | 20050324 | System and method for characterizing patient respiration                            | 600/529    |                                   | Lee, Kent et al.                  |
| US<br>20050061323<br>A1 | US-<br>PGPUB | 20050324 | Methods and systems for control of gas therapy                                      | 128/204.23 | 128/204.2<br>1                    | Lee, Kent et al.                  |
| US<br>20050061320<br>A1 | US-<br>PGPUB | 20050324 | Coordinated use of respiratory and cardiac therapies for sleep disordered breathing | 128/204.18 | 128/204.2                         | Lee, Kent et al.                  |
| US<br>20050061319<br>A1 | US-<br>PGPUB | 20050324 | Methods and systems for implantably monitoring external breathing therapy           | 128/204.18 | 128/204.2                         | Hartley,<br>Jesse W. et<br>al.    |
| US<br>20050061315<br>A1 | US-<br>PGPUB | 20050324 | Feedback system and method for sleep disordered breathing therapy                   | 128/200.24 | 128/204.2<br>1;<br>128/204.2<br>3 | Lee, Kent et al.                  |
| US<br>20050049492<br>A1 | US-<br>PGPUB | 20050303 | Acoustic physiological sensor   | 600/437    |                                   | Sweeney,<br>Robert J. et<br>al.   |
| US<br>20050043772<br>A1 | US-<br>PGPUB | 20050224 | Therapy triggered by prediction of disordered breathing                             | 607/42     |                                   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050043644<br>A1 | US-<br>PGPUB | 20050224 | Prediction of disordered breathing  | 600/529    |                                   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050042589<br>A1 | US-<br>PGPUB | 20050224 | Sleep quality data collection and evaluation  | 434/262    |                                   | Hatlestad,<br>John D. et al.      |
| US<br>20050039745<br>A1 | US-<br>PGPUB | 20050224 | Adaptive therapy for disordered breathing   | 128/204.18 |                                   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050021099<br>A1 | US-<br>PGPUB | 20050127 | Mode transition timing for synchronized pacing                                      | 607/9      |                                   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20050004610<br>A1 | US-<br>PGPUB | 20050106 | Cardiac cycle synchronized sampling of impedance signal                             | 607/17     |                                   | Kim, Jaeho et al.                 |
| US<br>20050004609<br>A1 | US-<br>PGPUB | 20050106 | Implantable devices and methods using frequency-domain analysis of thoracic signal  | 607/17     |                                   | Stahmann,<br>Jeffrey E. et<br>al. |
| US                      | US-          | 20050106 |   | 607/9      |                                   | Stahmann,                         |

| 20050004606             | PGPUB        |          | devices  |         |         | Jeffrey E. et                     |
|-------------------------|--------------|----------|--|---------|---------|-----------------------------------|
| US<br>20040243191<br>A1 | US-<br>PGPUB | 20041202 | Reduction of left-ventricular offset interaction with tachyarrhythmia detection  | 607/9   |         | al. Baker, Kenneth L. et al.      |
| US<br>20040243188<br>A1 | US-<br>PGPUB | 20041202 | Method and system for display of cardiac event intervals in a resynchronization pacemaker  | 607/9   |         | Vanderlinde,<br>Scott et al.      |
| US<br>20040243014<br>A1 | US-<br>PGPUB | 20041202 | Cardiac waveform template creation, maintenance and use  | 600/510 | 600/509 | Lee, Kent et al.                  |
| US<br>20040230239<br>A1 | US-<br>PGPUB | 20041118 | Cardiac rhythm management system with staggered pulses for coordination therapy  | 607/14  |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040230238<br>A1 | US-<br>PGPUB | 20041118 | Cardiac rhythm management system with staggered pulses for coordination therapy  | 607/9   | 607/17  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040230237<br>A1 | US-<br>PGPUB | 20041118 | Cardiac rhythm management system with staggered pulses for coordination therapy  | 607/9   |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040225330<br>A1 | US-<br>PGPUB | 20041111 | System and method for timing synchronized pacing   | 607/9   |         | Kramer,<br>Andrew P. et<br>al.    |
| US<br>20040215259<br>A1 | US-<br>PGPUB | 20041028 | Method and apparatus for treating irregular ventricular contractions such as during atrial arrhythmia  | 607/9   |         | Krig, David<br>B. et al.          |
| US<br>20040215245<br>A1 | US-<br>PGPUB | 20041028 | Method and apparatus for delivering defibrillation shock therapy while reducing electrical dispersion due to ventricular conduction disorder | 607/5   |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040172076<br>A1 | US-<br>PGPUB | 20040902 | Apparatus and method for pacing mode switching during atrial tachyarrhythmias  | 607/14  |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040143305<br>A1 | US-<br>PGPUB | 20040722 | Cardiac rhythm management system providing control of pacing features with a reduced number of variables                                     | 607/60  |         | Kalgren,<br>James et al.          |
| US<br>20040138714<br>A1 | US-<br>PGPUB | 20040715 | Cardiac rhythm management system with defibrillation threshold prediction  | 607/8   |         | Daum, Douglas R. et al.           |
| US<br>20040133247<br>A1 | US-<br>PGPUB | 20040708 | Method for ischemia detection by implantable cardiac device  | 607/17  |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040127948<br>A1 | US-<br>PGPUB | 20040701 | Reduction of interaction with tachyarrhythmia detection by negative offset pacing  | 607/14  |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20040127807<br>A1 | US-<br>PGPUB | 20040701 | Apparatus and method for detecting lung sounds using an implanted device   | 600/529 |         | Hatlesad,<br>John D. et al.       |
| US<br>20040122487       | US-<br>PGPUB | 20040624 |  | 607/60  |         | Hatlestad,<br>John et al.         |

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|-------------|-------|----------|---------------------------------------|----------|-----------|---------------|
| A1          | 110   | 20040624 | A location transport for              | 607/60   |           | Stahmann,     |
| US          | US-   | 20040624 | Advanced patient management for       | 007/00   |           | Jeffrey E. et |
| 20040122486 | PGPUB |          | acquiring, trending and displaying    |          |           | al.           |
| A1          |       |          | health-related parameters             | 605160   |           |               |
| US          | US-   | 20040624 | Advanced patient management for       | 607/60   |           | Stahmann,     |
| 20040122485 | PGPUB |          | reporting multiple health-related     |          |           | Jeffrey E. et |
| A1          |       |          | parameters                            |          |           | al            |
| US          | US-   | 20040624 | Advanced patient management for       | 607/60   |           | Hatlestad,    |
| 20040122484 | PGPUB |          | defining, identifying and using       |          |           | John et al.   |
| A1          | 10102 |          | predetermined health-related events   |          |           |               |
| US          | US-   | 20040624 | Advanced patient management for       | 600/300  |           | Stahmann,     |
|             |       | 20040024 | identifying, displaying and assisting |          |           | Jeffrey E. et |
| 20040122297 | PGPUB |          | with correlating health-related data  |          |           | al.           |
| A1          | - TTO | 20040624 |                                       | 600/300  | 705/2;    | Hatlestad,    |
| US          | US-   | 20040624 | Advanced patient management for       | 000/300  | 707/104.1 | John et al.   |
| 20040122296 | PGPUB |          | triaging health-related data          |          | /0//104.1 | Joini Ct ai.  |
| A1          |       |          |                                       | 600/000  |           | TT-414-d      |
| US          | US-   | 20040624 | Advanced patient management for       | 600/300  | ,         | Hatlestad,    |
| 20040122295 | PGPUB |          | triaging health-related data using    |          |           | John et al.   |
| A1          |       |          | color codes                           |          |           |               |
| US          | US-   | 20040624 | Advanced patient management with      | 600/300  |           | Hatlestad,    |
| 20040122294 | PGPUB |          | environmental data                    |          |           | John et al.   |
|             | TOTOD |          |                                       |          |           |               |
| Al          | US-   | 20040617 | Respiration signal measurement        | 600/547  |           | Daum,         |
| US          |       | 20040017 | apparatus, systems, and methods       | 000/01/  |           | Douglas R.    |
| 20040116820 | PGPUB |          | apparatus, systems, and memous        |          |           | et al.        |
| <u>A1</u>   |       | 20040610 | Gl. 1                                 | 600/544  | 600/481;  | Ni, Quan et   |
| US          | US-   | 20040610 | Sleep detection using an adjustable   | 000/344  | 600/529;  | al.           |
| 20040111041 | PGPUB |          | threshold                             |          |           | ai.           |
| A1          |       |          |                                       | 600/504  | 607/9     | Ni: Over et   |
| US          | US-   | 20040610 | Detection of disordered breathing     | 600/534  |           | Ni, Quan et   |
| 20040111040 | PGPUB |          |                                       |          |           | al.           |
| A1          |       |          |                                       | ļ        |           |               |
| US          | US-   | 20040527 | MINUTE VENTILATION SENSOR             | 702/45   |           | Larson,       |
| 20040102908 | PGPUB |          | WITH AUTOMATIC HIGH PASS              |          |           | Dennis E. et  |
| A1          | 10102 |          | FILTER ADJUSTMENT                     |          |           | al            |
| US          | US-   | 20040506 | Rate-adaptive pacemaker with          | 607/19   |           | Daum,         |
|             | PGPUB | 20040300 | compensation for long-term            |          |           | Douglas R.    |
| 20040088016 | PGPUB |          | variations in average exertion level  |          |           | et al.        |
| A1          | -     | 20040420 | System and method for correlation of  | 607/32   |           | Kalgren,      |
| US          | US-   | 20040429 |                                       | 007/32   |           | James et al.  |
| 20040082976 | PGPUB |          | patient health information and        | İ        |           | James et al.  |
| A1          |       |          | implant device data                   | (00/522  |           | Hatlestad,    |
| US          | US-   | 20040415 | Detection of congestion from          | 600/533  |           | 1             |
| 20040073128 | PGPUB | 1        | monitoring patient response to a      |          |           | John et al.   |
| A1          |       |          | recumbent position                    | <u> </u> |           | T             |
| US          | US-   | 20040311 | Minute ventilation sensor with        | 607/17   |           | Larson,       |
| 20040049237 | PGPUB | 1        | dynamically adjusted excitation       |          |           | Dennis E. e   |
| A1          | 0.02  |          | current                               |          |           | al.           |
| US          | US-   | 20040122 |                                       | 607/17   |           | Daum,         |
|             | 1     | 1        | using intrinsic chronotropic response |          |           | Douglas R.    |
| 20040015195 | LOLOB |          | using manusic emonotropic responde    |          |           | et al.        |
| A1          | TIC   | 20040115 | Apparatus and method for ventricular  | 607/25   |           | Kramer,       |
| US          | US-   | 20040115 | Apparatus and method for ventricular  | 1001123  |           |               |

| 20040010295<br>A1       | PGPUB        |          | rate regularization  |         |         | Andrew P. et al.                  |
|-------------------------|--------------|----------|--|---------|---------|-----------------------------------|
| US<br>20030233132<br>A1 | US-<br>PGPUB | 20031218 | Method and apparatus for detecting oscillations in cardiac rhythm  | 607/17  |         | Pastore,<br>Joseph M. et<br>al.   |
| US<br>20030233131<br>A1 | US-<br>PGPUB | 20031218 | Apparatus and method for ventricular rate regularization   | 607/9   |         | Kramer,<br>Andrew P. et<br>al.    |
| US<br>20030220670<br>A1 | US-<br>PGPUB | 20031127 | System and method for eliminating cross-talk due to far-field signals  | 607/9   |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20030199937<br>A1 | US-<br>PGPUB | 20031023 | Atrial interval based heart rate variability diagnostic for cardiac rhythm management system                       | 607/25  | 600/515 | Carlson,<br>Gerrard M.<br>et al.  |
| US<br>20030199931<br>A1 | US-<br>PGPUB | 20031023 | System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing | 607/9   | 607/25  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20030195575<br>A1 | US-<br>PGPUB | 20031016 | System and method for timing synchronized pacing   | 607/9   |         | Kramer,<br>Andrew P. et<br>al.    |
| US<br>20030176894<br>A1 | US-<br>PGPUB | 20030918 | Site reversion in cardiac rhythm management  | 607/9   |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20030167081<br>A1 | US-<br>PGPUB | 20030904 | Coronary sinus lead with thermal sensor and method therefor  | 607/122 |         | Zhu,<br>Qingsheng et<br>al.       |
| US<br>20030149454<br>A1 | US-<br>PGPUB | 20030807 | Method and apparatus for maintaining synchronized pacing   | 607/25  |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20030149452<br>A1 | US-<br>PGPUB | 20030807 | Method and apparatus for avoiding unwanted sensing in a cardiac rhythm management device                           | 607/9   |         | Tang,<br>Zhengnian et<br>al.      |
| US<br>20030135243<br>A1 | US-<br>PGPUB | 20030717 | Maximum pacing rate limiter implemented using the evoked response -T- wave interval                                | 607/25  |         | Daum, Douglas R. et al.           |
| US<br>20030120316<br>A1 | US-<br>PGPUB | 20030626 | Cardiac rhythm management system with arrhythmia classification and electrode selection                            | 607/14  |         | Spinelli,<br>Julio C. et al.      |
| US<br>20030120315<br>A1 | US-<br>PGPUB | 20030626 | Apparatus and method for multi-site anti-tachycardia pacing  | 607/14  |         | Spinelli,<br>Julio C. et al.      |
| US<br>20030120314<br>A1 | US-<br>PGPUB | 20030626 | Cardiac rhythm management system with remotely activated capture verification for CHF and other patients           | 607/9   |         | Warren, Jay<br>A. et al.          |
| US<br>20030105497<br>A1 | US-<br>PGPUB | 20030605 | Implantable cardiac disease management device with trigger-stored polysomnogram and phonocardiogram                | 607/17  |         | Zhu,<br>Qingsheng et<br>al.       |

| US .        | US-   | 20030522 | Triggered storage of diagnostic data   | 607/9                                   |         | Stahmann,     |
|-------------|-------|----------|--|---|---------|---------------|
| 20030097155 | PGPUB |          | associated with compromised            |   |         | Jeffrey E. et |
| A1          |       |          | resynchronization therapy              |   |         | al.           |
| US          | US-   | 20030515 | Pace counter isolation for cardiac     | 607/9                                   |         | Stahmann,     |
| 20030093123 | PGPUB |          | resynchronization pacing               |   |         | Jeffrey E. et |
| A1          |       |          |  |   |         | al.           |
| US          | US-   | 20030501 | Reduction of left-ventricular offset   | 607/14                                  |         | Baker,        |
| 20030083704 | PGPUB |          | interaction with tachyarrhythmia       |   |         | Kenneth L.    |
| A1          |       |          | detection                              |   |         | et al.        |
| US          | US-   | 20030410 | Apparatus and method for ventricular   | 607/25                                  |         | Kramer,       |
| 20030069610 | PGPUB |          | rate regularization with biventricular |   |         | Andrew P. et  |
| Al          |       |          | sensing                                | ]                                       |         | al.           |
| US          | US-   | 20030410 | Safety pacing in multi-site CRM        | 607/9                                   |         | Stahmann,     |
| 20030069607 | PGPUB | 2002011  | devices                                |   |         | Jeffrey E. et |
| A1          | 10105 |          |  |   |         | al.           |
| US          | US-   | 20030320 | Cardiac rhythm management systems      | 607/17                                  |         | Girouard,     |
| 20030055461 | PGPUB | 1        | and methods predicting congestive      |   |         | Steven D. et  |
| A1          | TOLOD |          | heart failure status                   |   |         | al.           |
| US          | US-   | 20030206 | System and method for cardiac          | 607/9                                   |         | Stahmann,     |
| 20030028222 | PGPUB | 20030200 | rhythm management with                 |   |         | Jeffrey E.    |
| A1          | TOLOD |          | dynamically adjusted synchronized      |   |         |               |
| AI          |       |          | chamber pacing protection period       |   |         |               |
| US          | US-   | 20030130 | Adjustable ramp helix                  | 74/567                                  |         | Lee, Kent     |
| 20030019322 | PGPUB | 20030130 | Adjustable famp nom                    | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |         | ,             |
|             | FOFUB |          |  |   |         |               |
| US US       | US-   | 20030102 | Cardiac rhythm management system       | 607/14                                  |         | Chen, Victor  |
| 20030004551 | PGPUB | 20030102 | with atrial shock timing optimization  |   |         | T. et al.     |
|             | PUPUB |          | with atrial shock thing optimization   | j                                       |         |               |
| US US       | US-   | 20030102 | Mode transition timing for             | 607/9                                   |         | Stahmann,     |
| -           | PGPUB | 20030102 | synchronized pacing                    |   |         | Jeffrey E. et |
| 20030004550 | FOLOR |          | synchronized paoing                    |   |         | al.           |
| US US       | US-   | 20021210 | Implantable medical device with        | 607/60                                  |         | Daum,         |
|             | PGPUB | 20021219 | voice responding and recording         | 337733                                  |         | Douglas R.    |
| 20020193847 | rurub |          | capacity                               |   |         | et al.        |
| Al          | US-   | 20021031 | Implantable medical device             | 600/547                                 | ·       | Daum,         |
| US          | L     | 20021031 | employing single drive, dual sense     | 000/2                                   |         | Douglas R.    |
| 20020161310 | PGPUB |          | impedance measuring                    |   |         |               |
| A1          | TIC   | 20021017 | TRANSMYOCARDIAL                        | 600/407                                 | 600/439 | Hynynen,      |
| US          | US-   | 20021017 | REVASCULARIZATION USING                | 000/10/                                 | 000/105 | Kullervo et   |
| 20020151777 | PGPUB |          | ULTRASOUND                             |   |         | al.           |
| Al          | TTO   | 20021010 | Cardiac rhythm management system       | 607/17                                  |         | Daum,         |
| US          | US-   | 20021010 | adjusting rate response factor for     | 00//1/                                  | 1       | Douglas R.    |
| 20020147476 | PGPUB |          | treating hypotension                   |   |         | 2008          |
| A1          | TIC   | 20021010 |  | 607/17                                  | +       | Scheiner,     |
| US          | US-   | 20021010 | for hypotension                        | 00//1/                                  |         | Avram et al.  |
| 20020147475 | PGPUB |          | tor hypotension                        |   |         |               |
| A1          | 110   | 20021010 | Device and method for ventricular      | 607/9                                   |         | Kramer,       |
| US          | US-   | 20021010 | 1                                      |   |         | Andrew P. et  |
| 20020147469 | PGPUB |          | tracking and pacing                    |   |         | al.           |
| A1          | 110   | 20020010 | Conding whythm management system       | 607/14                                  | _       | Daum,         |
| US          | US-   | 20020919 | Cardiac rhythm management system       | 1007717                                 |         | 1             |

| 20020133206             | PGPUB        |          | with defibrillation threshold  |         | Douglas R.                        |
|-------------------------|--------------|----------|--|---------|-----------------------------------|
| A1                      |              |          | prediction   |         | et al.                            |
| US<br>20020128564       | US-<br>PGPUB | 20020912 | Atrial interval based heart rate variability diagnostic for cardiac rhythm management system                       | 600/509 | Carlson,<br>Gerrard M.<br>et al.  |
| A1<br>US                | US-          | 20020829 | Expert system and method   | 607/72  | Lindh, Par et                     |
| 20020120311<br>A1       | PGPUB        | 2002002  |  |         | al.                               |
| US<br>20020120298<br>A1 | US-<br>PGPUB | 20020829 | Apparatus and method for ventricular rate regularization   | 607/5   | Kramer, Andrew P. et al.          |
| US<br>20020107551<br>A1 | US-<br>PGPUB | 20020808 | Pacing and sensing vectors   | 607/9   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020087198<br>A1 | US-<br>PGPUB | 20020704 | Apparatus and method for ventricular rate regularization   | 607/9   | Kramer, Andrew P. et              |
| US<br>20020082663<br>A1 | US-<br>PGPUB | 20020627 | Pace counter isolation for cardiac resynchronization pacing  | 607/27  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082662<br>A1 | US-<br>PGPUB | 20020627 | Method and apparatus for display of ventricular electrograms   | 607/27  | Vanderlinde,<br>Scott et al.      |
| US<br>20020082660<br>A1 | US-<br>PGPUB | 20020627 | Apparatus and method for pacing mode switching during atrial tachyarrhythmias                                      | 607/14  | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082659<br>A1 | US-<br>PGPUB | 20020627 | Cardiac rhythm management system with staggered pulses for coordination therapy                                    | 607/9   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082657<br>A1 | US-<br>PGPUB | 20020627 | MODE TRANSITION TIMING<br>FOR SYNCHRONIZED PACING  | 607/9   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082656<br>A1 | US-<br>PGPUB | 20020627 | Method and apparatus for maintaining synchronized pacing   | 607/9   | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082655<br>A1 | US-<br>PGPUB | 20020627 | System and method for cardiac rhythm management with synchronized pacing protection period                         | 607/9   | Kramer,<br>Andrew P. et<br>al.    |
| US<br>20020082654<br>A1 | US-<br>PGPUB | 20020627 | System and method for timing synchronized pacing   | 607/9   | Kramer, Andrew P. et al.          |
| US<br>20020082653<br>A1 | US-<br>PGPUB | 20020627 | System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing |         | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082652<br>A1 | US-<br>PGPUB | 20020627 | METHOD FOR COLLECTION OF<br>BIVENTRICULAR HISTOGRAMS   | 607/9   | Wentkowski,<br>Rene H. et<br>al.  |
| US                      | US-          | 20020627 | Pacing and sensing vectors   | 607/9   | Stahmann,                         |

| 20020082651             | PGPUB        |          |  | · · · · · · · · · · · · · · · · · · · |                    | Jeffrey E. et                     |
|-------------------------|--------------|----------|--|---------------------------------------|--------------------|-----------------------------------|
| A1                      |              |          |  |                                       |                    | al.                               |
| US<br>20020082650<br>A1 | US-<br>PGPUB | 20020627 | System and method for eliminating cross-talk due to far-field signals                                    | 607/9                                 |                    | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082649<br>A1 | US-<br>PGPUB | 20020627 | Safety pacing in multi-site CRM devices  | 607/9                                 |                    | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020082648<br>A1 | US-<br>PGPUB | 20020627 | Apparatus and method for ventricular rate regularization with biventricular sensing                      | 607/9                                 |                    | Kramer,<br>Andrew P. et<br>al.    |
| US<br>20020082509<br>A1 | US-<br>PGPUB | 20020627 | Method and system for display of cardiac event intervals in a resynchronization pacemaker                | 600/510                               |                    | Vanderlinde,<br>Scott et al.      |
| US<br>20020077859<br>A1 | US-<br>PGPUB | 20020620 | System and method for displaying cardiac events  | 705/3                                 |                    | Stahmann,<br>Jeffrey E. et<br>al. |
| US<br>20020077668<br>A1 | US-<br>PGPUB | 20020620 | Cardiac rhythm management system providing control of pacing features with a reduced number of variables | 607/9                                 |                    | Kalgren,<br>James et al.          |
| US<br>20020077562<br>A1 | US-<br>PGPUB | 20020620 | System and method for correlation of patient health information and implant device data                  | 600/510                               |                    | Kalgren,<br>James et al.          |
| US<br>20020068959<br>A1 | US-<br>PGPUB | 20020606 | Cardiac rhythm management system with remotely activated capture verification for CHF and other patients | 607/28                                |                    | Warren, Jay<br>A. et al.          |
| US<br>20010016759<br>A1 | US-<br>PGPUB | 20010823 | System providing ventricular pacing and biventricular coordination                                       | 607/9                                 |                    | Kramer,<br>Andrew P. et<br>al.    |
| US 7092757<br>B2        | USPAT        | 20060815 | Minute ventilation sensor with dynamically adjusted excitation current                                   | 607/17                                | 607/18;<br>607/24  | Larson;<br>Dennis E. et<br>al.    |
| US 7062325<br>B1        | USPAT        | 20060613 | Method and apparatus for treating irregular ventricular contractions such as during atrial arrhythmia    | 607/14                                | 607/4              | Krig; David<br>B. et al.          |
| US 7058449<br>B2        | USPAT        | 20060606 | Safety pacing in multi-site CRM devices  | 607/17                                | 607/18;<br>607/9   | Stahmann;<br>Jeffrey E. et<br>al. |
| US 7050854<br>B2        | USPAT        | 20060523 | Calibration of adaptive-rate pacing using intrinsic chronotropic response                                | 607/17                                | 607/19             | Daum;<br>Douglas R.<br>et al.     |
| US 7047066<br>B2        | USPAT        | 20060516 | Method and system for display of cardiac event intervals in a resynchronization pacemaker                | 600/510                               | 600/523            | Vanderlinde;<br>Scott et al.      |
| US 7047065<br>B2        | USPAT        | 20060516 | System and method for correlation of patient health information and implant device data                  | 600/510                               |                    | Kalgren;<br>James et al.          |
| US 7039462<br>B2        | USPAT        | 20060502 | Method and apparatus for detecting oscillations in cardiac rhythm  | 607/14                                | 600/547;<br>607/24 | Pastore;<br>Joseph M. et          |

|                  |       |          |   |         | T                              | al.                               |
|------------------|-------|----------|---|---------|--------------------------------|-----------------------------------|
| US 7016732<br>B2 | USPAT | 20060321 | Cardiac rhythm management system with remotely activated capture verification for CHF and other patients                | 607/28  | 600/510;<br>607/27;<br>607/32  | Warren; Jay<br>A. et al.          |
| US 7016729<br>B2 | USPAT | 20060321 | Reduction of interaction with tachyarrhythmia detection by negative offset pacing                                       | 607/14  | 607/9                          | Stahmann;<br>Jeffrey E. et<br>al. |
| US 7003347<br>B2 | USPAT | 20060221 | System and method for cardiac rhythm management with dynamically adjusted synchronized chamber pacing protection period | 607/9   | 607/14;<br>607/25;<br>607/4    | Stahmann;<br>Jeffrey E.           |
| US 6988002<br>B2 | USPAT | 20060117 | Apparatus and method for ventricular rate regularization with biventricular sensing                                     | 607/18  | 607/19;<br>607/25              | Kramer;<br>Andrew P. et<br>al.    |
| US 6963778<br>B2 | USPAT | 20051108 | Maximum pacing rate limiter implemented using the evoked response-T-wave interval                                       | 607/25  |                                | Daum;<br>Douglas R.<br>et al.     |
| US 6963774<br>B2 | USPAT | 20051108 | Safety pacing in multi-site CRM devices   | 607/9   | 607/18                         | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6957100<br>B2 | USPAT | 20051018 | Method and system for display of cardiac event intervals in a resynchronization pacemaker                               | 600/510 | 600/523                        | Vanderlinde;<br>Scott et al.      |
| US 6949075<br>B2 | USPAT | 20050927 | Apparatus and method for detecting lung sounds using an implanted device  | 600/586 | 600/300;<br>600/529;<br>607/9  | Hatlesad;<br>John D. et al.       |
| US 6944499<br>B2 | USPAT | 20050913 | Method and apparatus for avoiding unwanted sensing in a cardiac rhythm management device                                | 607/9   |                                | Tang;<br>Zhengnian et<br>al.      |
| US 6941167<br>B2 | USPAT | 20050906 | System and method for displaying cardiac events   | 600/523 | 607/2;<br>607/27;<br>607/30    | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6922589<br>B2 | USPAT | 20050726 | Site reversion in cardiac rhythm management   | 607/27  | 607/28                         | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6912420<br>B2 | USPAT | 20050628 | Cardiac rhythm management system for hypotension  | 607/17  |                                | Scheiner;<br>Avram et al.         |
| US 6909916<br>B2 | USPAT | 20050621 | Cardiac rhythm management system with arrhythmia classification and electrode selection                                 | 607/9   | 600/515;<br>600/518;<br>607/14 | Spinelli;<br>Julio C. et al.      |
| US 6907289<br>B2 | USPAT | 20050614 | Triggered storage of diagnostic data associated with compromised resynchronization therapy                              | 607/27  | 607/9                          | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6907288<br>B2 | USPAT | 20050614 | Cardiac rhythm management system adjusting rate response factor for treating hypotension                                | 607/17  |                                | Daum;<br>Douglas R.               |
| US 6885890<br>B2 | USPAT | 20050426 |   | 607/14  |                                | Spinelli;<br>Julio C. et al.      |
| US 6871095       | USPAT | 20050322 | Method and apparatus for  | 607/9   |                                | Stahmann;                         |

| B2               |       |          | maintaining synchronized pacing  |         |   | Jeffrey E. et al.                 |
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| US 6868346<br>B2 | USPAT | 20050315 | Minute ventilation sensor with automatic high pass filter adjustment                                     | 702/45  |   | Larson;<br>Dennis E. et<br>al.    |
| US 6865424<br>B2 | USPAT | 20050308 | Implantable medical device with voice responding and recording capacity                                  | 607/62  | 600/586   | Daum;<br>Douglas R.<br>et al.     |
| US 6859664<br>B2 | USPAT | 20050222 | Cardiac rhythm management system with defibrillation threshold prediction                                | 607/8   | 607/5   | Daum;<br>Douglas R.<br>et al.     |
| US 6829505<br>B2 | USPAT | 20041207 | System and method for cardiac rhythm management with synchronized pacing protection period               | 607/9   |   | Kramer;<br>Andrew P. et<br>al.    |
| US 6810287<br>B2 | USPAT | 20041026 | Implantable cardiac disease management device with trigger-stored polysomnogram and phonocardiogram      | 607/17  |   | Zhu;<br>Qingsheng et<br>al.       |
| US 6795734<br>B2 | USPAT | 20040921 | Method and apparatus for display of ventricular electrograms   | 607/27  | 600/509;<br>600/518;<br>600/523;<br>607/19;<br>607/25;<br>607/31;<br>607/63 | Vanderlinde;<br>Scott et al.      |
| US 6760623<br>B2 | USPAT | 20040706 | Cardiac rhythm management system with staggered pulses for coordination therapy                          | 607/9   |   | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6757562<br>B2 | USPAT | 20040629 | Reduction of left-ventricular offset interaction with tachyarrhythmia detection                          | 607/14  |   | Baker;<br>Kenneth L.<br>et al.    |
| US 6751502<br>B2 | USPAT | 20040615 | Cardiac rhythm management system with defibrillation threshold prediction                                | 607/8   | 607/5   | Daum;<br>Douglas R.<br>et al.     |
| US 6748272<br>B2 | USPAT | 20040608 | Atrial interval based heart rate variability diagnostic for cardiac rhythm management system             | 607/14  | 600/508;<br>600/515;<br>607/9   | Carlson;<br>Gerrard M.<br>et al.  |
| US 6684101<br>B2 | USPAT | 20040127 | Implantable medical device employing single drive, dual sense impedance measuring                        | 600/547 | 600/483;<br>600/484   | Daum;<br>Douglas R.               |
| US 6665558<br>B2 | USPAT | 20031216 | System and method for correlation of patient health information and implant device data                  | 600/510 | 607/30;<br>607/31;<br>607/59  | Kalgren;<br>James et al.          |
| US 6618618<br>B2 | USPAT | 20030909 | Cardiac rhythm management system providing control of pacing features with a reduced number of variables | 607/9   | 607/30  | Kalgren;<br>James et al.          |
| US 6574506<br>B2 | USPAT | 20030603 | System and method for timing synchronized pacing   | 607/9   | 607/15  | Kramer;<br>Andrew P. et<br>al.    |

| US 6564100<br>B2 | USPAT | 20030513 | Cardiac rhythm management system with remotely activated capture verification for CHF and other patients           | 607/28  |                               | Warren; Jay<br>A. et al.          |
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| US 6553258<br>B2 | USPAT | 20030422 | System and method for managing refractory periods in a cardiac rhythm management device with biventricular sensing | 607/9   | 607/15                        | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6522921<br>B2 | USPAT | 20030218 | System and method for eliminating cross-talk due to far-field signals  | 607/9   |                               | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6512952<br>B2 | USPAT | 20030128 | Method and apparatus for maintaining synchronized pacing   | 607/9   |                               | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6511444<br>B2 | USPAT | 20030128 | Transmyocardial revascularization using ultrasound   | 601/2   |                               | Hynynen;<br>Kullervo et<br>al.    |
| US 6502479<br>B1 | USPAT | 20030107 | Adjustable ramp helix  | 74/568R | 474/11;<br>474/19             | Lee; Kent                         |
| US 6501988<br>B2 | USPAT | 20021231 | Apparatus and method for ventricular rate regularization with biventricular sensing                                | 607/9   | 607/25                        | Kramer;<br>Andrew P. et al.       |
| US 6493586<br>B1 | USPAT | 20021210 | Site reversion in cardiac rhythm management  | 607/27  | 607/28                        | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6480742<br>B2 | USPAT | 20021112 | Pace counter isolation for cardiac resynchronization pacing  | 607/27  | 607/15                        | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6480740<br>B2 | USPAT | 20021112 | Safety pacing in multi-site CRM devices  | 607/9   | 607/25                        | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6459929<br>B1 | USPAT | 20021001 | Implantable cardiac rhythm management device for assessing status of CHF patients                                  | 600/513 | 600/510;<br>607/18;<br>607/20 | Hopper;<br>Donald L. et<br>al.    |
| US 6453201<br>B1 | USPAT | 20020917 | Implantable medical device with voice responding and recording capacity  | 607/62  | 600/586                       | Daum;<br>Douglas R.<br>et al.     |
| US 6438421<br>B1 | USPAT | 20020820 | Mode transition timing for synchronized pacing   | 607/9   |                               | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6430439<br>B1 | USPAT | 20020806 | Method for collection of biventricular histograms  | 607/9   |                               | Wentkowski;<br>Rene H. et<br>al.  |
| US 6430438<br>B1 | USPAT | 20020806 | Cardiac rhythm management system with atrial shock timing optimization   | 607/5   |                               | Chen; Victor T. et al.            |
| US 6415180<br>B1 | USPAT | 20020702 | Device and method for ventricular tracking and pacing  | 607/9   |                               | Kramer;<br>Andrew P. et<br>al.    |
| US 6411848<br>B1 | USPAT | 20020625 | System providing ventricular pacing and biventricular coordination   | 607/9   | 607/25                        | Kramer;<br>Andrew P. et           |

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| US 6363278<br>B1 | USPAT | 20020326 | Cardiac rhythm management system with staggered pulses for coordination therapy                         | 607/9     |                              | Stahmann;<br>Jeffrey E. et<br>al. |
| US 6353759<br>B1 | USPAT | 20020305 | Cardiac rhythm management system promoting a trial pacing   | 607/9     |                              | Hartley;<br>Jesse W. et<br>al.    |
| US 6351669<br>B1 | USPAT | 20020226 | Cardiac rhythm management system promoting atrial pacing  | 607/5     |                              | Hartley;<br>Jesse W. et<br>al.    |
| US 6285907<br>B1 | USPAT | 20010904 | System providing ventricular pacing and biventricular coordination                                      | 607/9     | 607/25                       | Kramer;<br>Andrew P. et<br>al.    |
| US 6275727<br>B1 | USPAT | 20010814 | Implantable cardiac rhythm management device for assessing status of CHF patients                       | 600/513   | 607/17;<br>607/18;<br>607/20 | Hopper;<br>Donald L. et<br>al.    |
| US 5621460<br>A  | USPAT | 19970415 | Optical differentiation between plants and background utilizing a single CCD camera                     | 348/265   | 348/337                      | Hatlestad;<br>John D. et al.      |
| US 5555464<br>A  | USPAT | 19960910 | Red/near-infrared filtering for CCD cameras   | 348/266   | 348/273;<br>348/280          | Hatlestad; John D.                |
| US 5376106<br>A  | USPAT | 19941227 | Multi-sensor blending in a rate responsive cardiac pacemaker  | 607/18    |                              | Stahmann;<br>Jeffrey E. et<br>al. |
| US 5343204<br>A  | USPAT | 19940830 | Auto-focusing correction for rotational acceleration effects on inverse synthetic aperture radar images | 342/25F   | 342/195                      | Farmer;<br>Michael E.<br>et al.   |